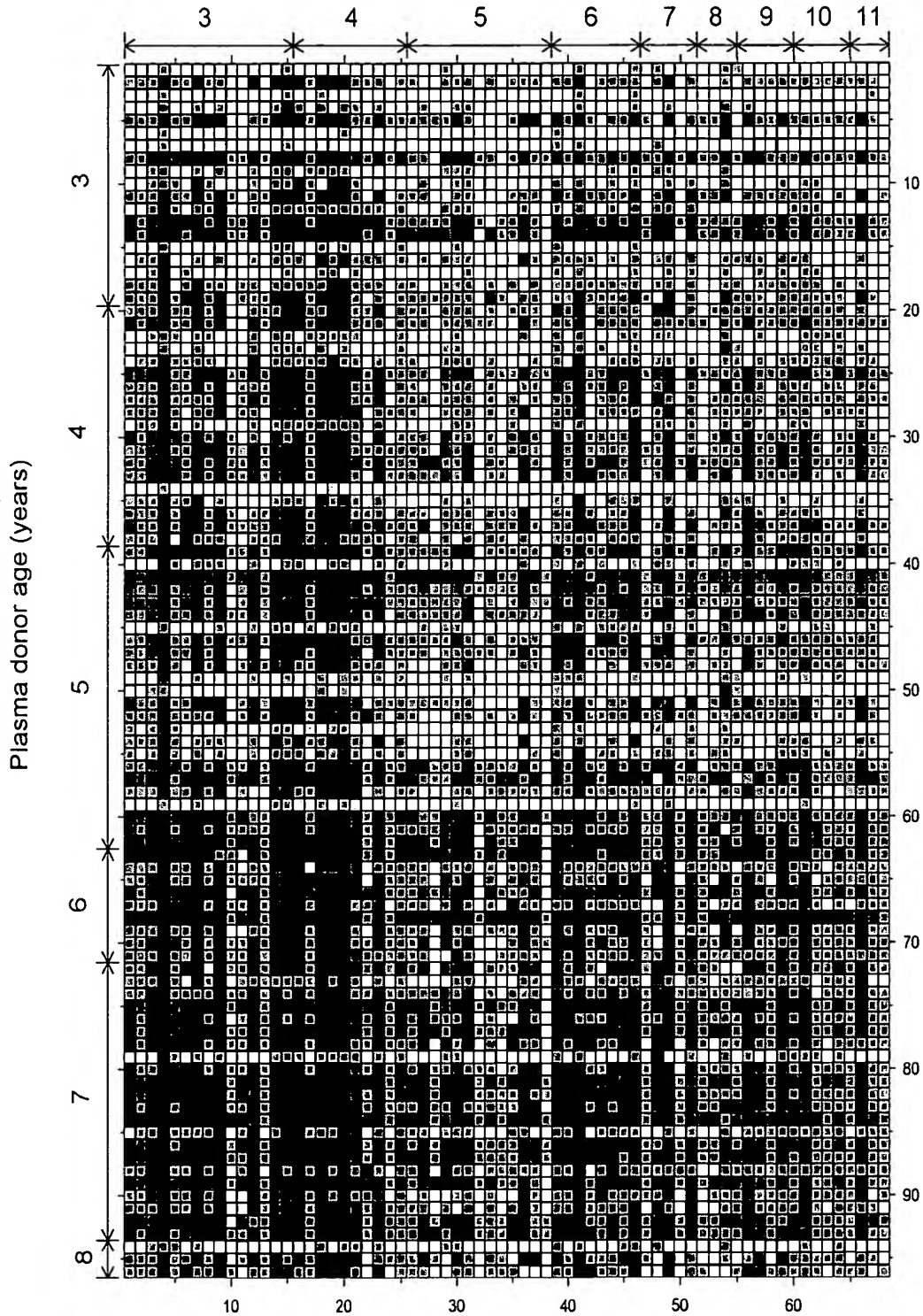


Parasite donor age (years)



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Fig. 1

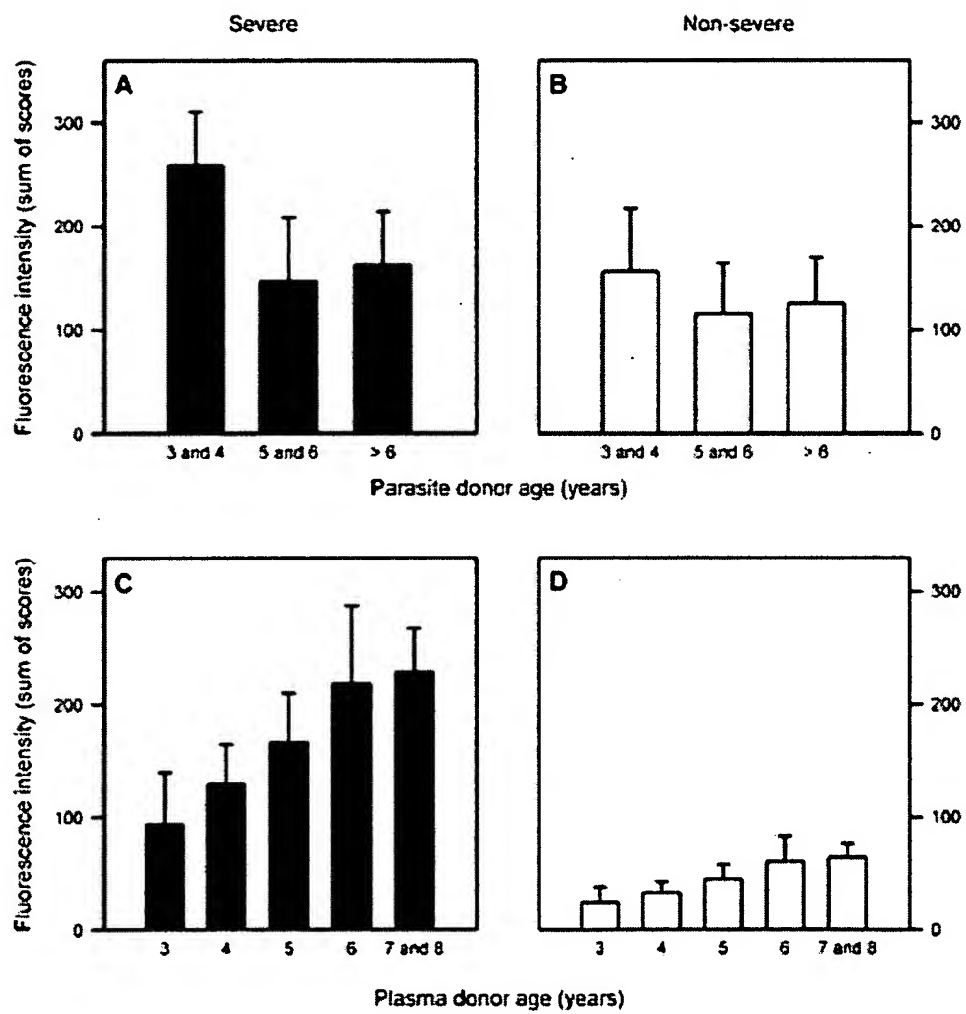


Fig. 2

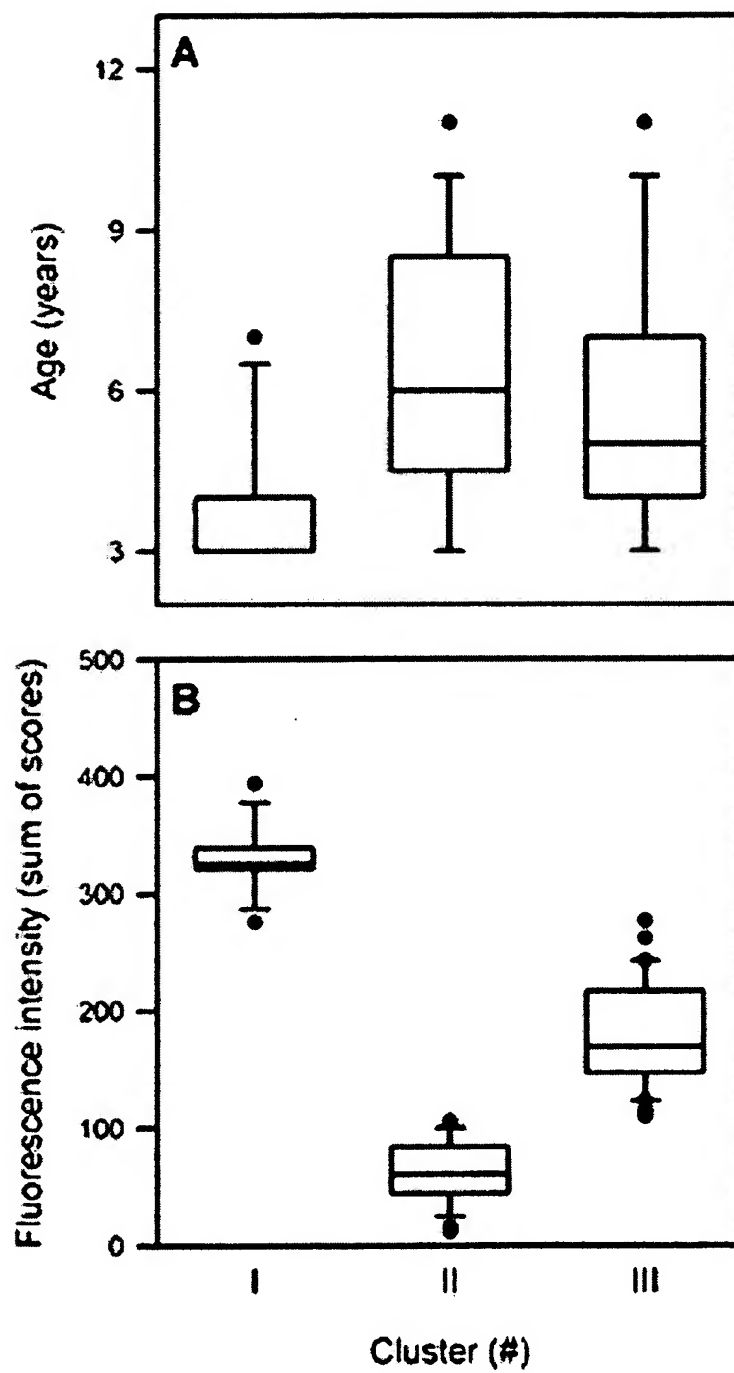


Fig. 3

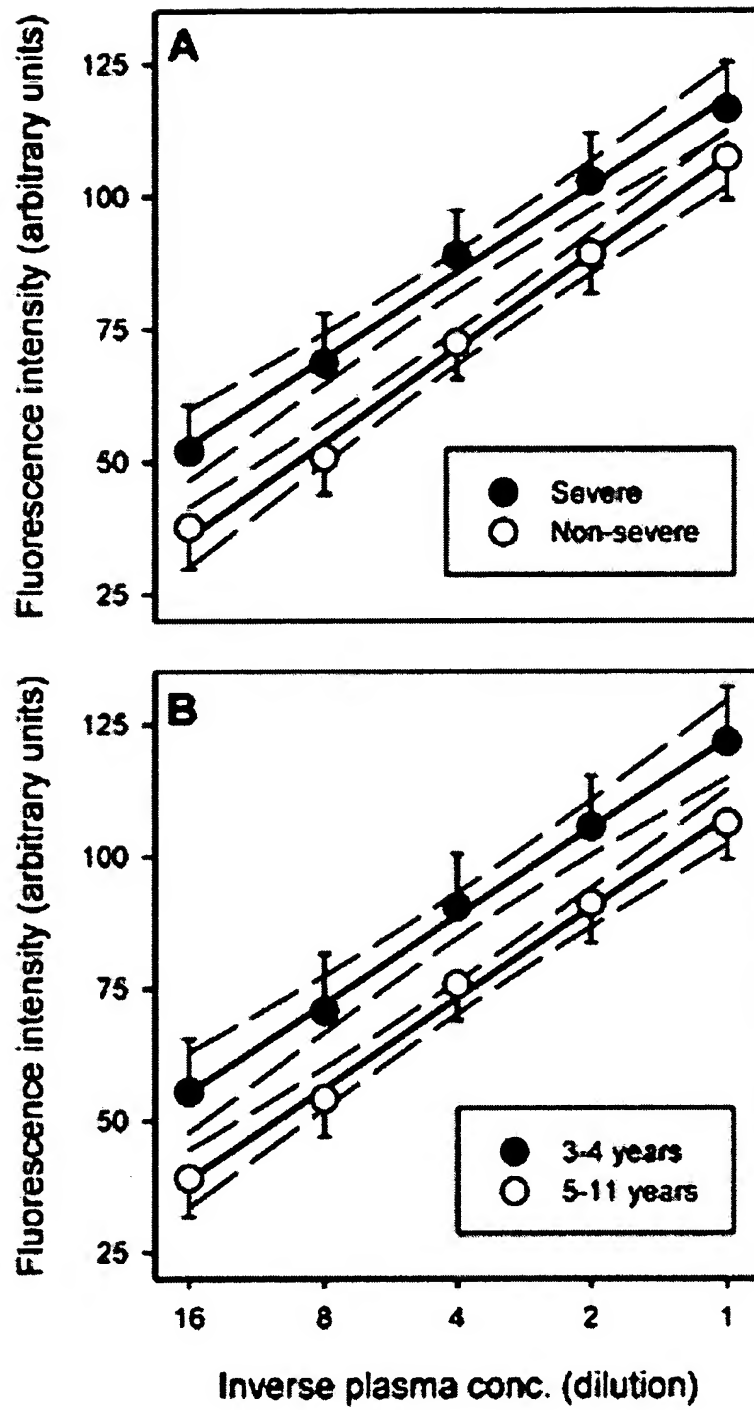


Fig. 4

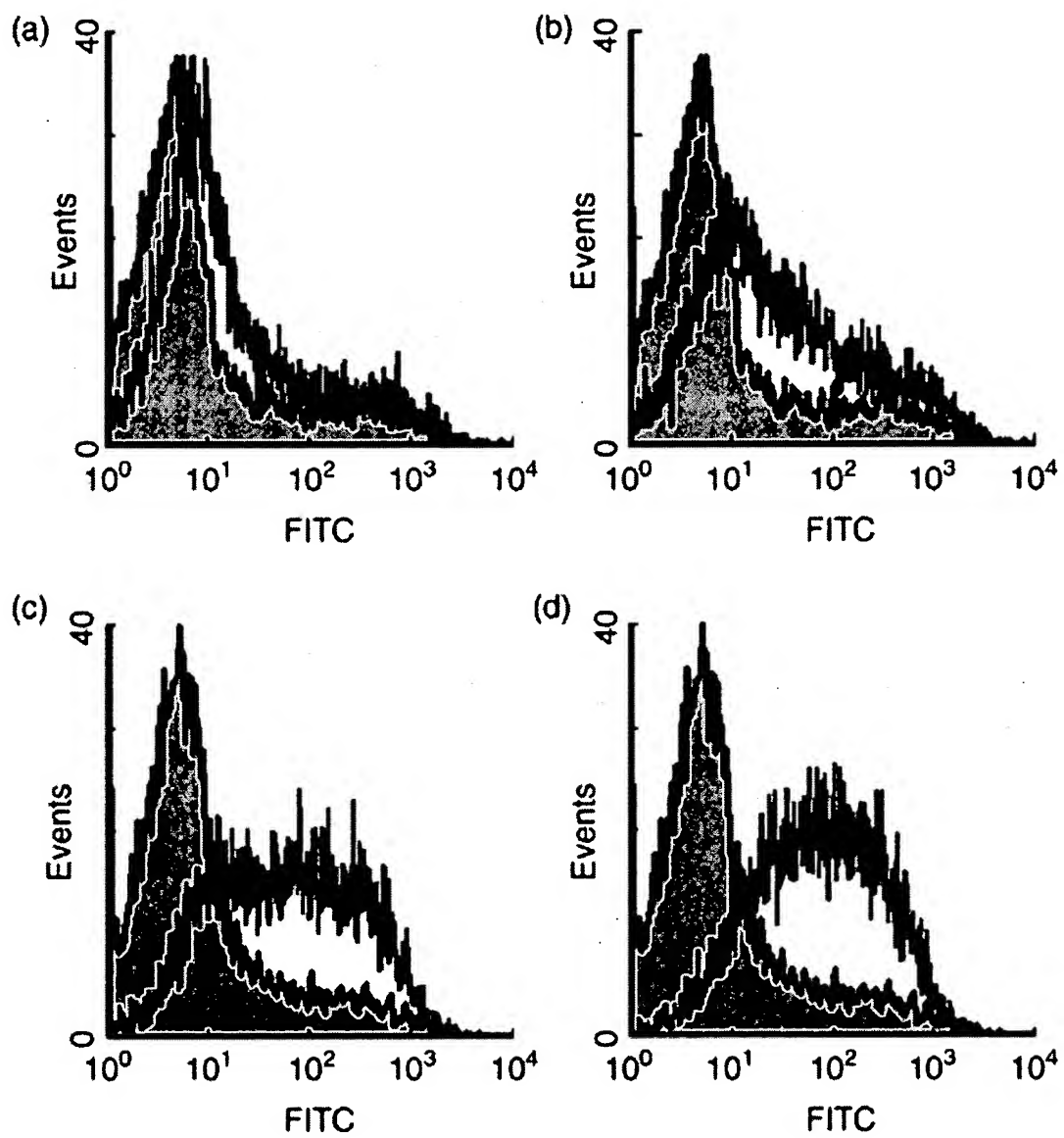


Fig. 5

6/20

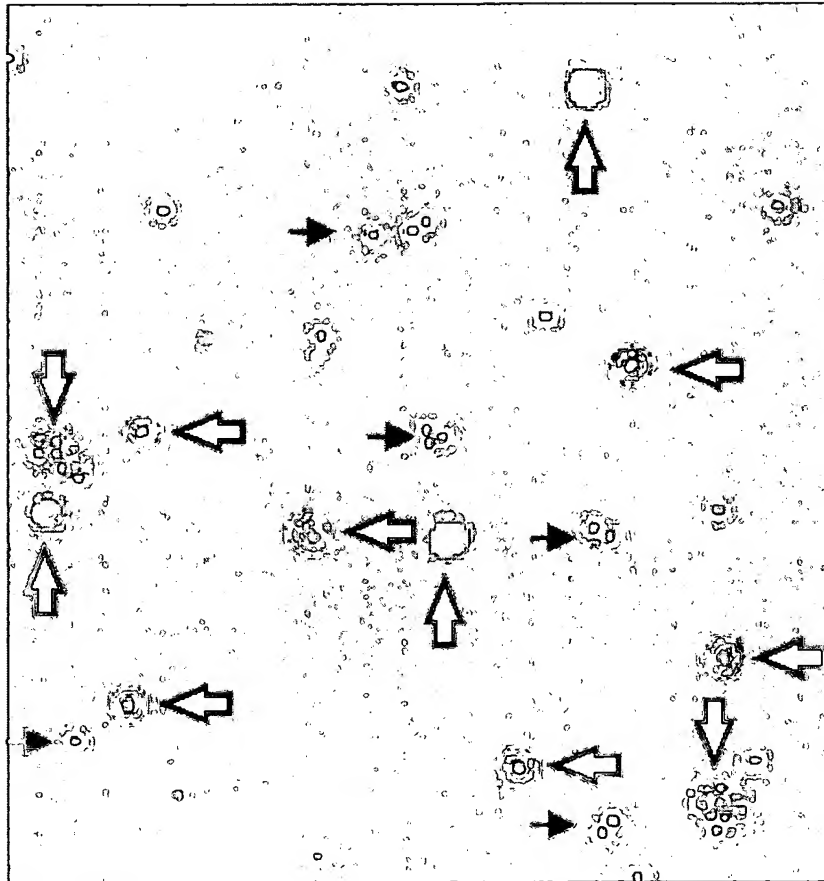


Fig. 6 BEST AVAILABLE COPY

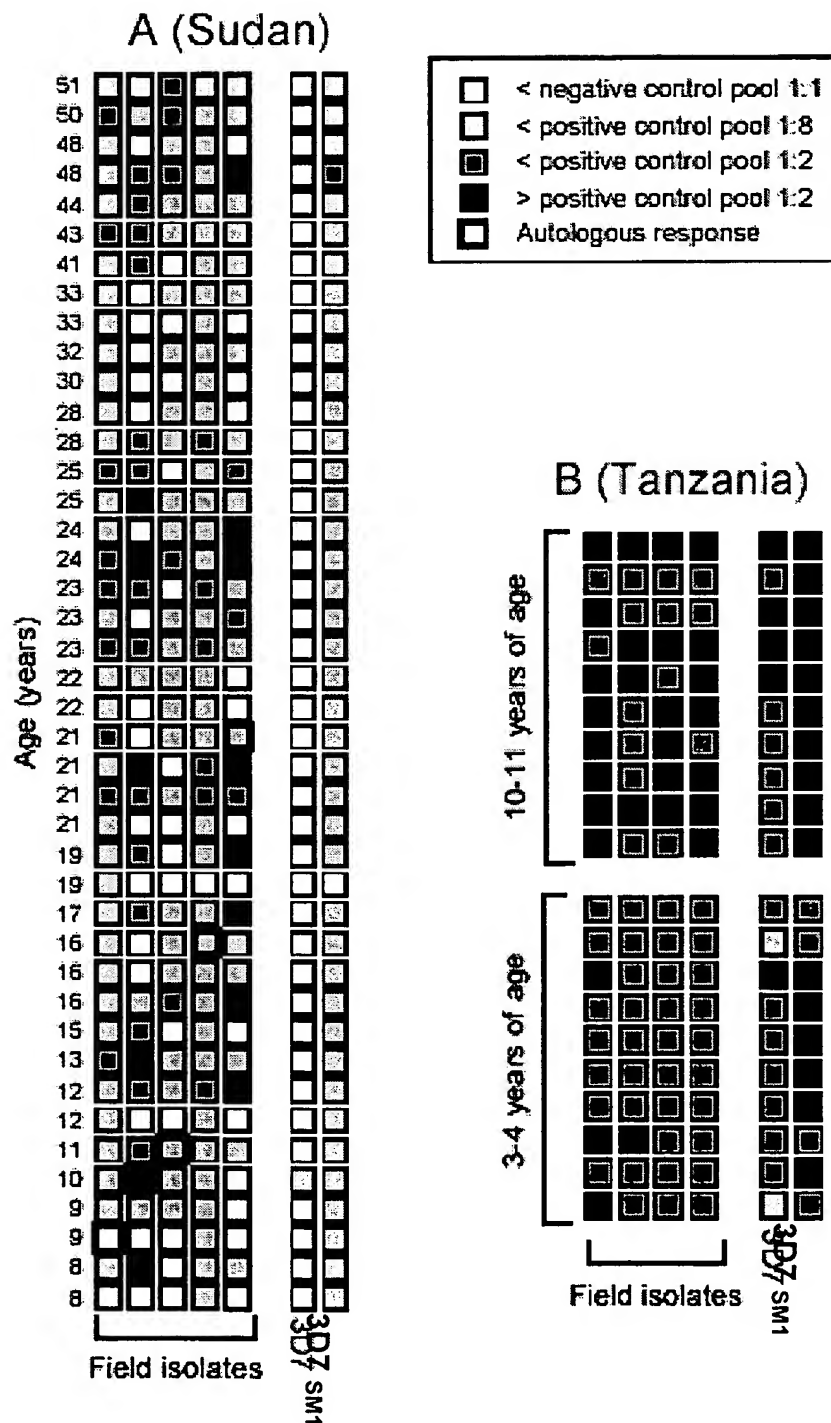


Fig. 7

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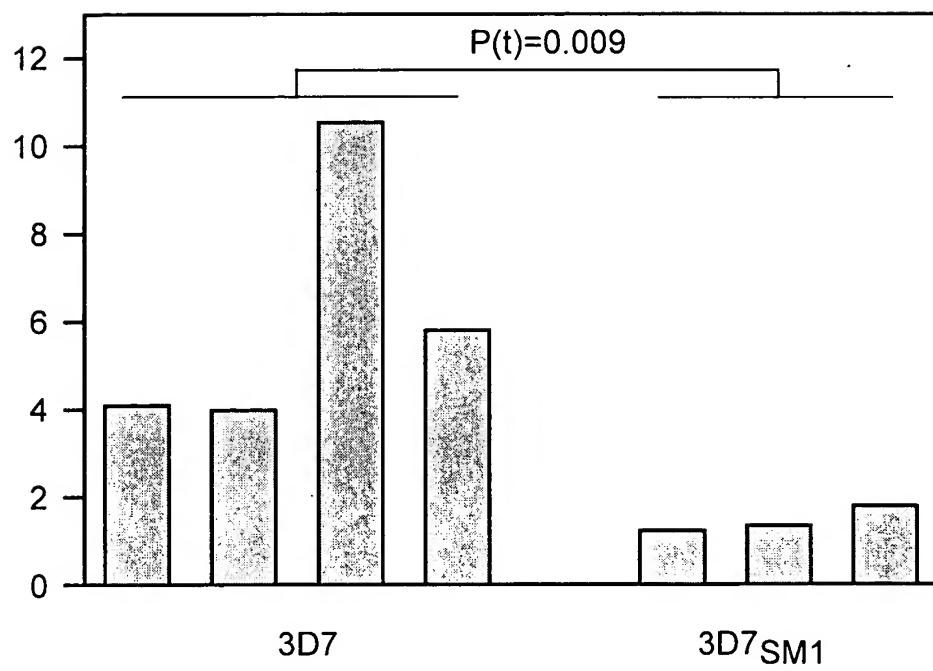


Fig. 8

Fig. 9

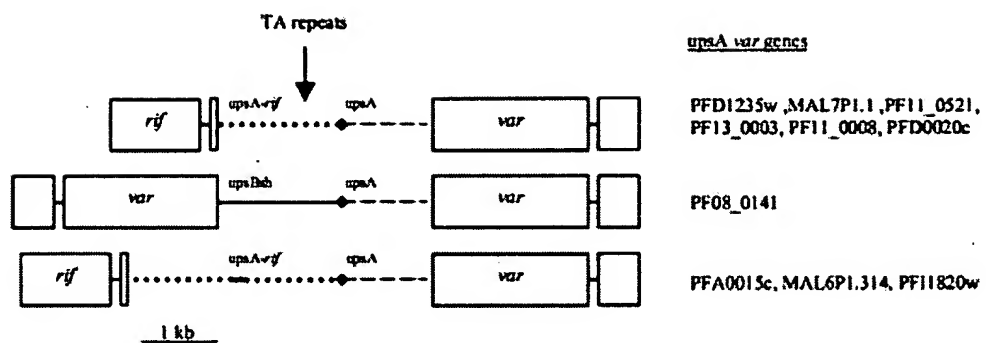


Fig. 10

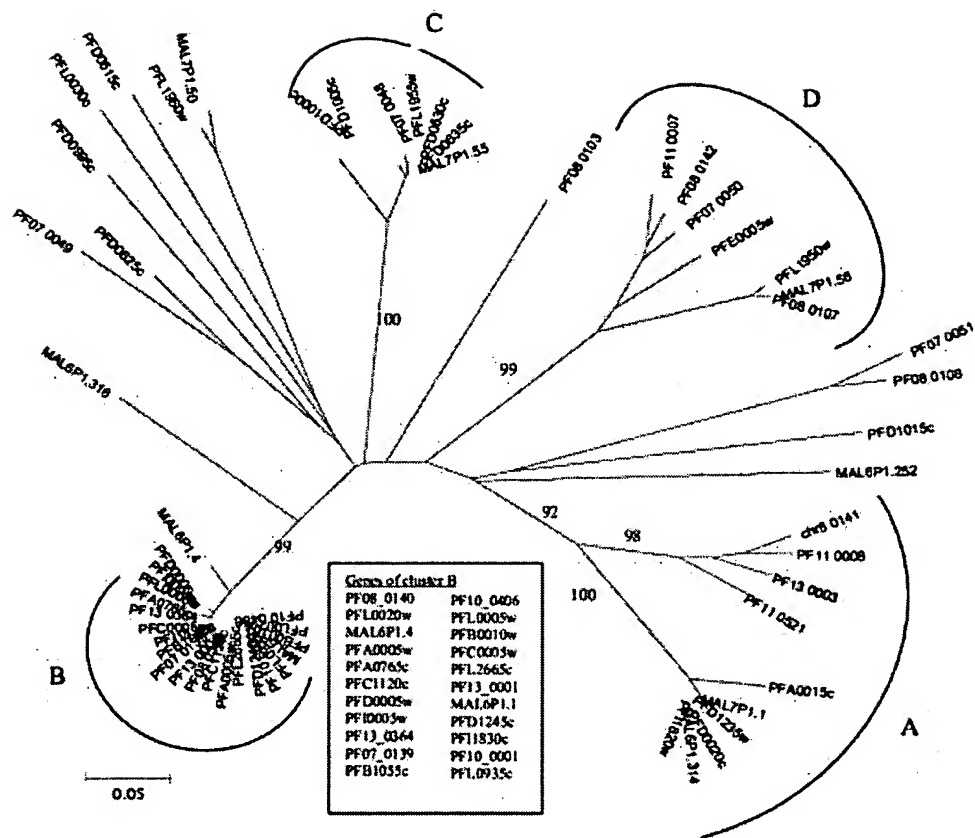


Fig. 11

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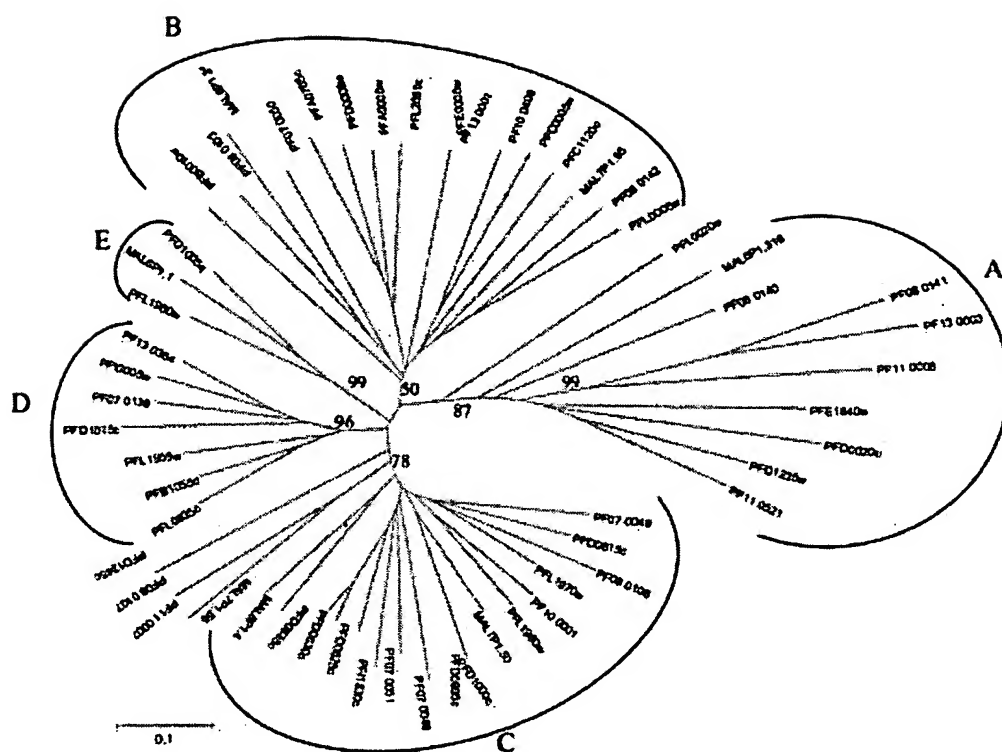


Fig. 12

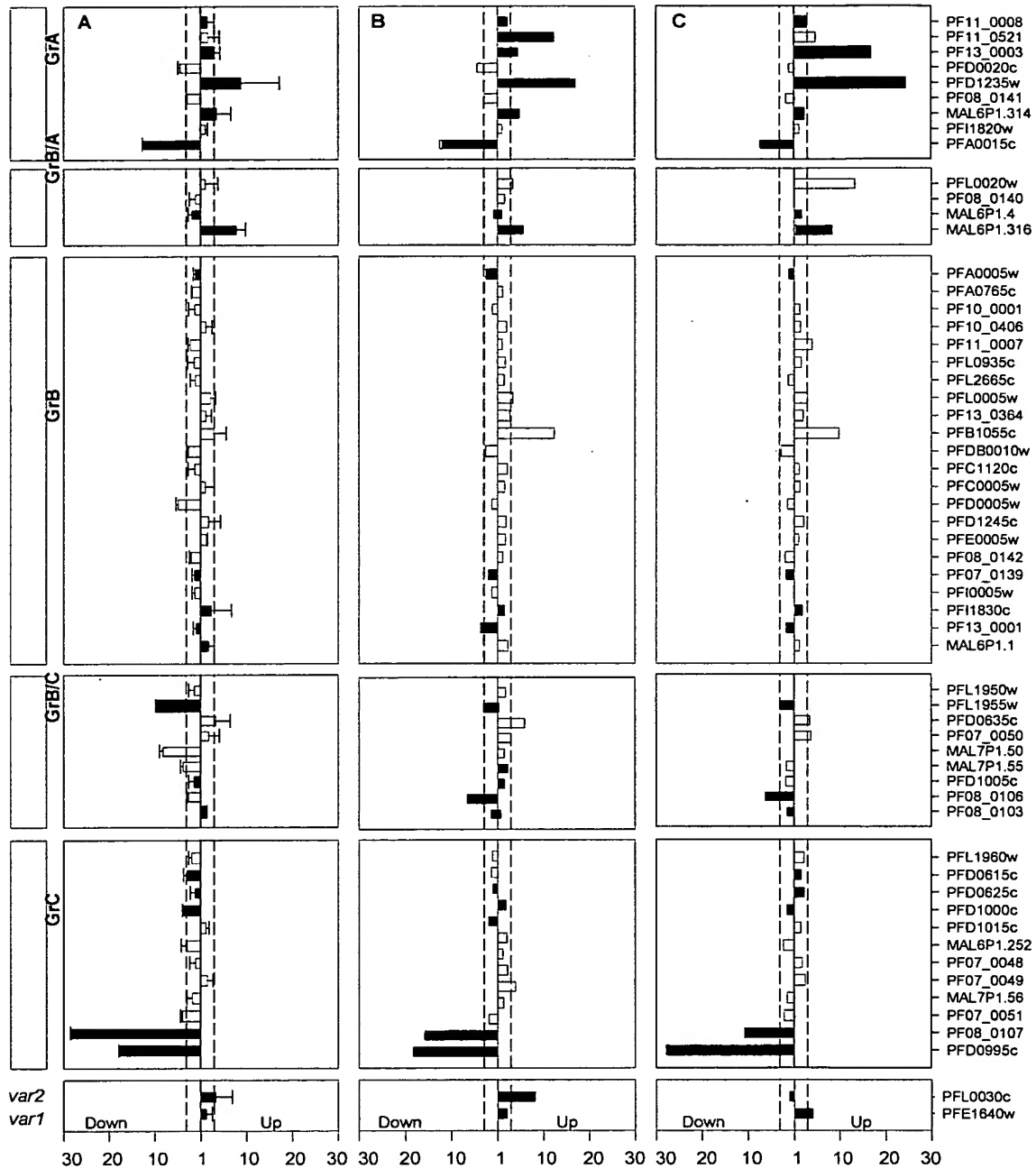


Fig. 13

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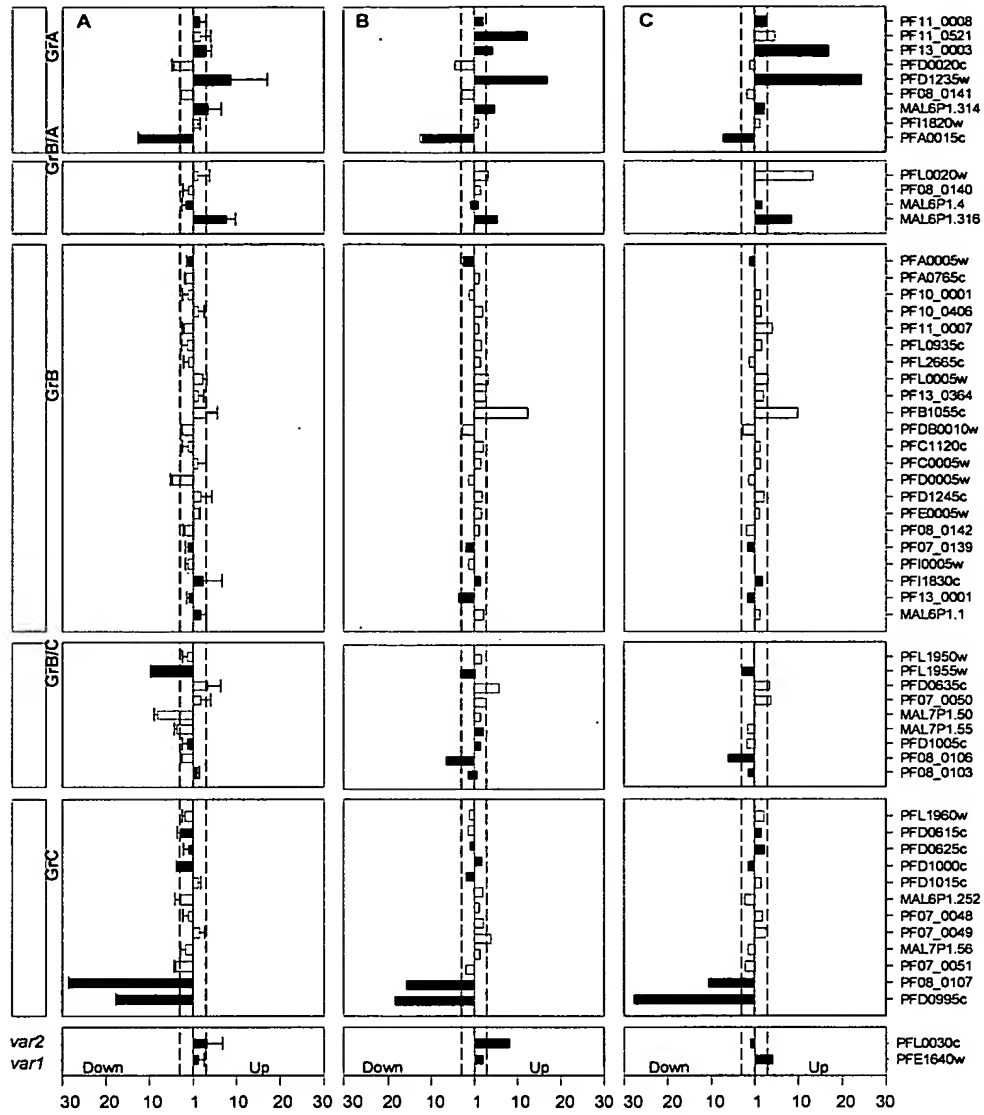


Fig. 14

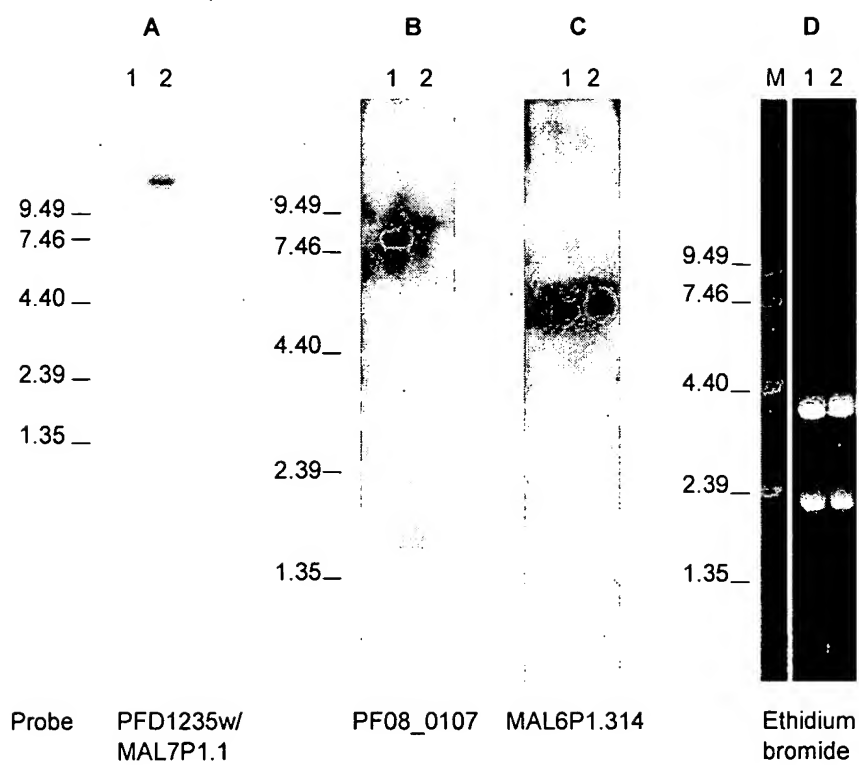


Fig. 15

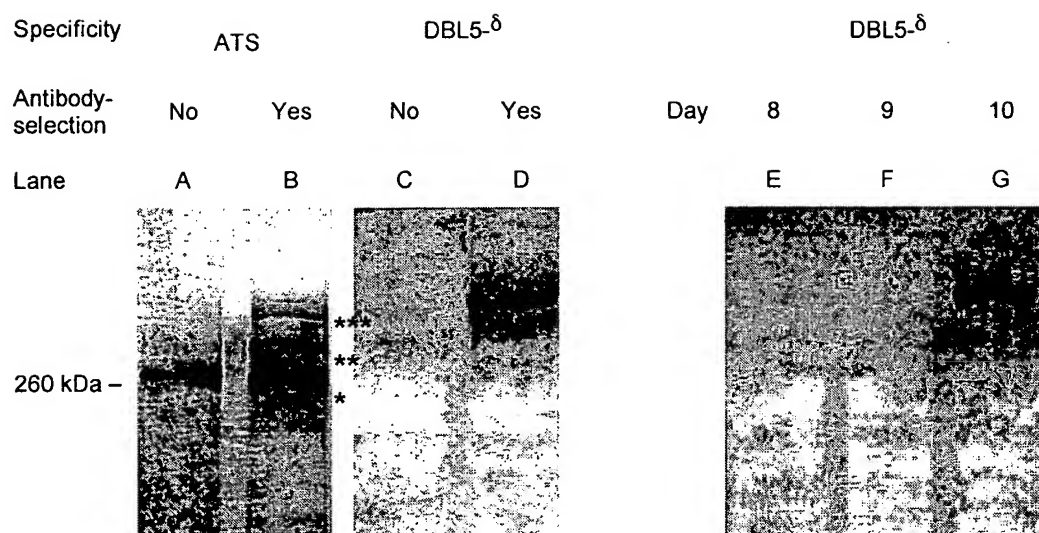


Fig. 16

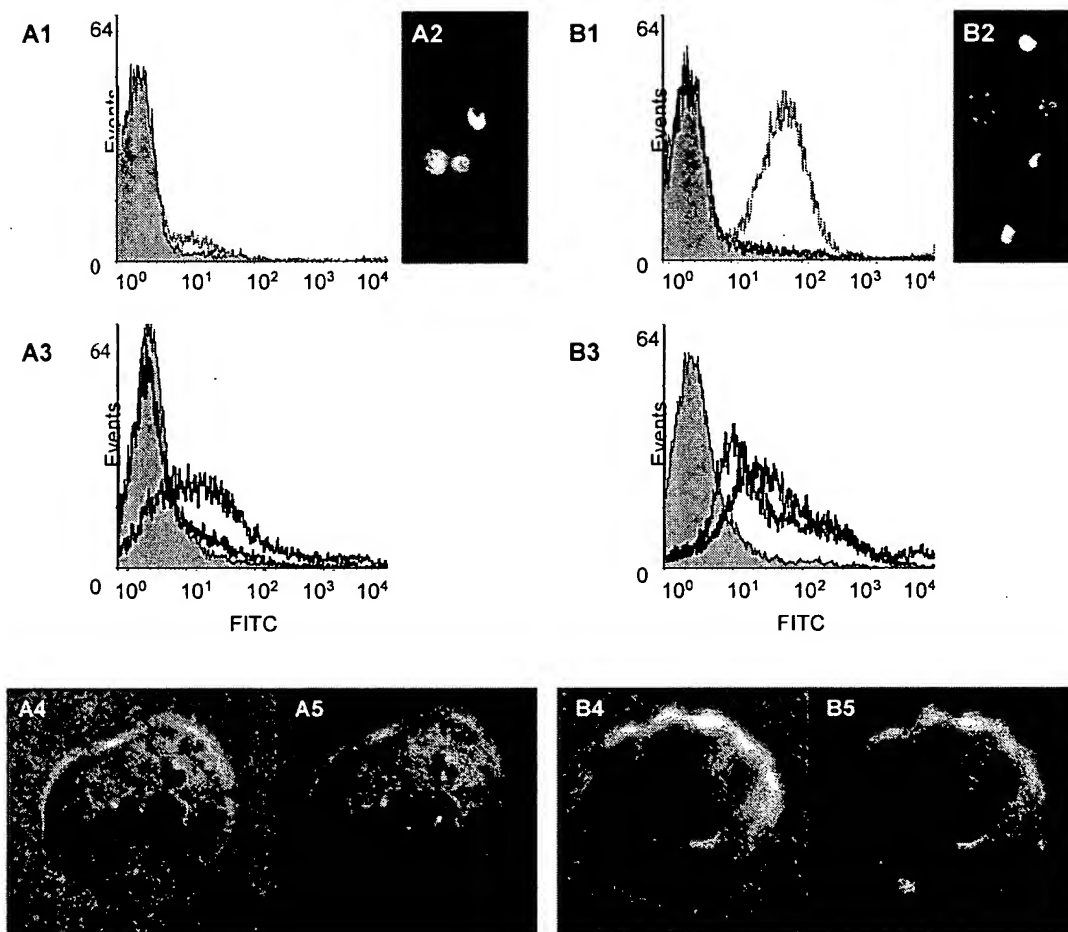


Fig. 17

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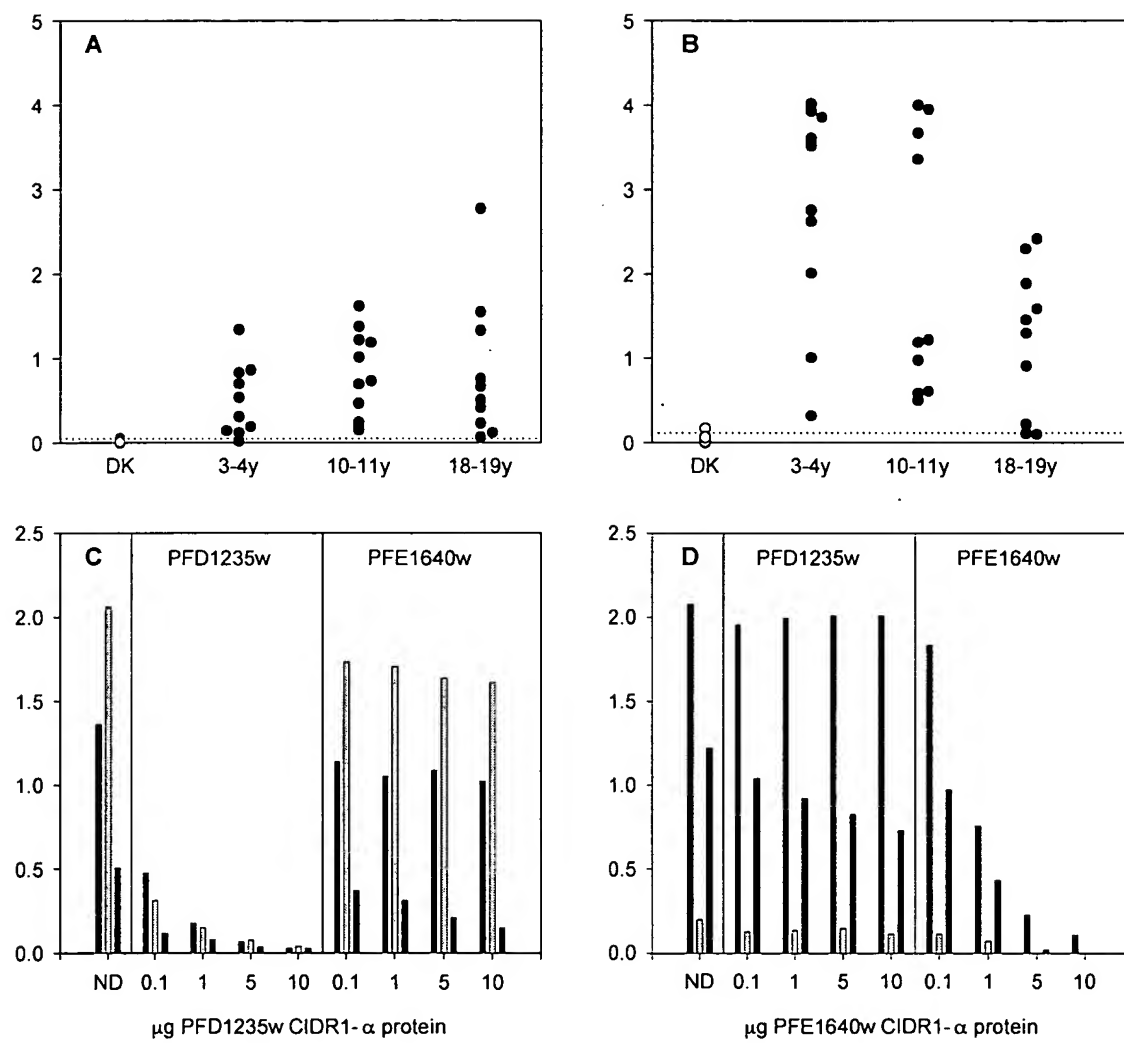


Fig. 18

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*      20      *      40      *      60      *      80
BM021/1-76 : VVHRRNAEDRNPCLFSSRSERFSNEGEAECCGSDRI RDNGERSAGGACAPYRRRI CDYNLHHINENNIRNTHDLLGNVLVMAH : 81
BM048/1-76 : VVHRRNAEDRNPCLFSSRSERFSNEGEAECCGSDRI RDNGERSAGGACAPYRRRI CDYNLHHINENNIRNTHDLLGNVLVMAH : 81
PFD1235w/1 : VVHRRNAEDRNPCLFSSRAKRFSSNEGEAECCNGGIITGN--NGECGACAPYRRRI CDYNLHHINENNIRNTHDLLGNVLVMAH : 79
VVHRRNAEDRNPCLFSSRSERFSNEGEAECCGsdkiRdNge4sagGACAPYRRRI CDYNLHHINENNIRNTHDLLGNVLVMA4

*      100     *      120     *      140     *      160
BM021/1-76 : SEGESIVKSHEYTYGYIYKSGHCTSLARSFADIGDIIRGKDLYLGDNGKDRLENKLEIFKNIYDEVTSATRGKKPALQA : 162
BM048/1-76 : SEGESIVKSHEYTYGYIYKSGHCTSLARSFADIGDIIRGKDLYLGDNGKDRLENKLEIFKNIYDEVTSATRGKKPALQA : 162
PFD1235w/1 : SEGESIVKSHEYTYGYIYKSGICTSLARSFADIGDIIRGKDLYRFRSRTDKLEENLRKIFANIYRELR--NGKRWAEAKE : 157
SEGESIVKSHEYTYGYIYKSG6CTSLARSFADIGDIIRGKDLYlgDngkD4LenkL4eIFkNIYdE6tstatrqKkpqlqa

*      180     *      200     *      220     *      240
BM021/1-76 : RYQHDAP--DYQLREDWWTANRHTVWKALTCsAPRDAQYFI KSSVRDQTFsNDYCGHGEHEVLTNLDYVPOFLRWFEWSE : 242
BM048/1-76 : RYQHDAP--DYQLREDWWTANRHTVWKALTCsAPRDAQYFI KSSVRDQTFsNDYCGHGEHEVLTNLDYVPOFLRWFEWSE : 242
PFD1235w/1 : RYQHDAP--DYQLREDWWTANRHTVWKALTCsAPRDAQYFI KSSVRDQTFsNDYCGHGEHEVLTNLDYVPOFLRWFEWSE : 238
RYQHDAP 1YyQLREDWWTANRhtVWKALTCsAPRDAQYFI KSSVRDQTFsNDYCGHGEHEVLTNLDYVPOFLRWFEWSE

*      260     *      280     *      300     *      320
BM021/1-76 : EFCRIKKIKLKHVKADCRDDTKALYCGRNGYDCTKTNRN--ENLPRGSKCTHCWAKCHLYESWLNHQQBEFFKKQKYEKEI : 322
BM048/1-76 : EFCRIKKIKLKHVKADCRDDTKALYCGRNGYDCTKTNRN--ENLPRGSKCTHCWAKCHLYESWLNHQQBEFFKKQKYEKEI : 322
PFD1235w/1 : EFCRIKKIKLKHVKADCRDDSKLYCGSNGYDCTKTNRN--ENLSDNPKCTGGSVKQYVBLNLCRNEBKKONKQYVNEI : 319
EFCRIKKIKLKHVKADCRDDJkALYCGrNGYDCTKTNRN enLprgsKCTnCwAKCn6YEsWLNHQqEeFFkKQKkYEKEI

*      340     *      360     *      380     *      400
BM021/1-76 : LRYKSNEKISGSNINNNRYEDFYKELEK--CANNDHF LKLLNEGKYCNKKEKIE--EENIDFTNiGEGKTFYRSRYCEVCPPF : 401
BM048/1-76 : LRYKSNEKISGSNINNNRYEDFYKELEK--CANNDHF LKLLNEGKYCNKKEKIE--EENIDFTNiGEGKTFYRSRYCEVCPPF : 401
PFD1235w/1 : QTYNSKDAKIDSHINNEYKEFYDKIKNEGyETINFIKLLNEGRYC--KEKISGERNI DFTMTGKDAFYRSdyCOICPE : 398
lkykSneki3gSNINNNRYedFYkeLekk cannlnf6KLLNEG4YCNkKEKIE EeNIDFTniGeKgtFYRSkyYC26CPf

*      420     *      440     *      460     *      480
BM021/1-76 : CGVECRGHTCTPPKKEKYPNCENNEAYLPKDATPIDI SVLYTGDEOGDITKKLSEFCsNENRENGENYQIHWOCYKNSDIN : 482
BM048/1-76 : CGVECRGHTCTPPKKEKYPNCENNEAYLPKDATPIDI SVLYTGDEOGDITKKLSEFCsNENRENGENYQIHWOCYKNSDIN : 482
PFD1235w/1 : CGVOCSSGTCTPPKVIHPNCKRRTYEE--GDAKTTIDITVLYSGDEEGDIACKLODFCDKNNKENDENYEWOCYKNSSHIN : 478
CGV2CrGtCTPPKRekyPNCeInEaYiPpkDatpiDI 3VLY 3GDE2GDI tKKLseFCaLen4ENgENY2IWQCYYKNSdIN

*      500     *      520     *      540     *      560
BM021/1-76 : KCKMTPSSHVKPKHGVIHSFFAFDLWVKNLIDITINWKNELTNCINNTNVTDCKNDCHTNCKCFENWAKTKENEWKVKVT : 563
BM048/1-76 : KCKMTPSSHVKPKHGVIHSFFAFDLWVKNLIDITINWKNELTNCINNTNVTDCKNDCHTNCKCFENWAKTKENEWKVKVT : 563
PFD1235w/1 : KCKMTPSSHVKPKHGVIHSFYAFDLWVKNLIDISINWKNELTNCINNTNVTDCKNDCHTNCKCFENWAKTKENEWKVKVT : 559
KCKMTPSSHVKPKHGYSMSF5AFDLWVKNLIDISINWKNELTNCINNTNVTDCKNDCHTNCKCFENWAKTKENEWKVKVT

*      580     *      600     *      620     *      640
BM021/1-76 : IYKNENGNTNNYYKKLMDLFGYFFHVHKEVHKEAKWKLHENLKEIDSSNLKNGTKDSEGAIKVLFDLHLKDIAERCIDN : 644
BM048/1-76 : IYKNENGNTNNYYKKLMDLFGYFFHVHKEVHKEAKWKLHENLKEIDSSNLKNGTKDSEGAIKVLFDLHLKDIAERCIDN : 644
PFD1235w/1 : IYKNENGNTNNYYKKLNNHFGYFFHVHKELNKEAKWKLHEDLKEIDSSNLKNGTKDSEGAIKVLFDLHLKDIAERCIDN : 640
IYKNENGNTNNYYKKLNI1fKGYFFHVHKE6NKEAKWKLMEILKEIDSSNLKNGTKDSEGAIKVLFDLHLKDIAERCIDN

*      660     *      680     *      700     *      720
BM021/1-76 : NSNEscDVSkdSKTNPCSETRGSKPTKSVKQLAEHMQQAOKLLGTRGGESNLKGDATRGTYNLGGOGNTLNGDICKITKN : 725
BM048/1-76 : NSNEscDVSkdSKTNPCSETRGSKPTKSVKQLAEHMQQAOKLLGTRGGESNLKGDATRGTYNLGGOGNTLNGDICKITKN : 725
PFD1235w/1 : NSKdSCPFSDTKTNPCAKPPGSKPTKSVKQLAEHMQQAOKLLGTRGGESNLKGDATRGTYNLGGOGNTLNGDICKITKN : 721
NSNEscDvskd3JKNPCsetrGSKPTKSVKQLAEHMQQAOKLLGTRGGESNLKGDATRGTYNLGGOGNTLNGDICKITKN

*      740     *      760
BM021/1-76 : HTNDSRPNGEPCGDKDKVKNGFRLKIGTPWTNI VQKKKK : 764
BM048/1-76 : HTNDSRPNGEPCGDKDKVKNGFRLKIGTPWTNI VQKKKK : 764
PFD1235w/1 : HTNDSRPNGEPCGDKDKVKNGFRLKIGTPWTNI VQKKKK : 760

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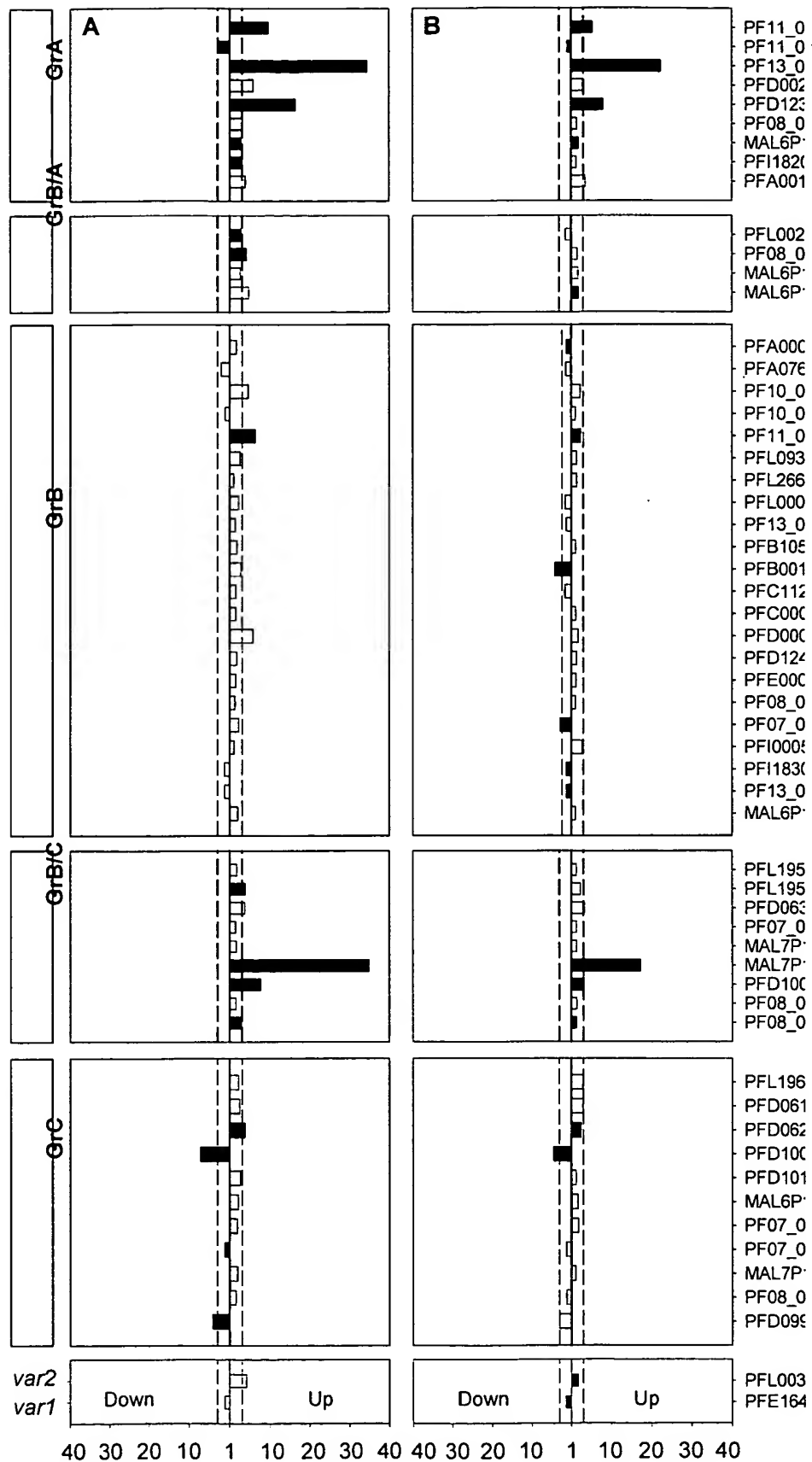


Fig. 20